List of Publications by Year in descending order

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APASH BOOCHANI

#	Article	lF	CITATIONS
1	Electronic and optical properties of 2D graphene-like compounds titanium carbides and nitrides: DFT calculations. Solid State Communications, 2014, 195, 61-69.	1.9	177
2	Electronic and optical properties of 2D graphene-like ZnS: DFT calculations. Applied Surface Science, 2016, 369, 76-81.	6.1	103
3	Electronic, optical and elastic properties of cubic perovskite CsPbI3: Using first principles study. Optik, 2016, 127, 11433-11443.	2.9	96
4	Novel Graphene-like Co ₂ VAl (111): Case Study on Magnetoelectronic and Optical Properties by First-Principles Calculations. Journal of Physical Chemistry C, 2017, 121, 3978-3986.	3.1	67
5	Topographic Characterization of Cu–Ni NPs @ a-C:H Films by AFM and Multifractal Analysis. Journal of Physical Chemistry B, 2015, 119, 5662-5670.	2.6	61
6	A scheme for secure quantum communication network with authentication using GHZ-like states and cluster states controlled teleportation. Quantum Information Processing, 2015, 14, 4279-4295.	2.2	61
7	Microstructure and micromorphology of ZnO thin films: Case study on Al doping and annealing effects. Superlattices and Microstructures, 2016, 93, 109-121.	3.1	58
8	The electronic and optical properties of MgO mono-layer: Based on GGA-mBJ. Results in Physics, 2019, 12, 2038-2043.	4.1	51
9	Electronic and optical properties of cubic SrHfO3 at different pressures: A first principles study. Materials Chemistry and Physics, 2017, 186, 620-626.	4.0	43
10	Calculation of Half-Metal, Debye and Curie Temperatures of Co ₂ VAl Compound: First Principles Study*. Communications in Theoretical Physics, 2015, 63, 641-647.	2.5	42
11	Ab-initio study of mechanical, half-metallic and optical properties of Mn2ZrX (X = Ge, Si) compounds. Results in Physics, 2017, 7, 3522-3529.	4.1	42
12	Topological nature in cubic phase of perovskite CsPbI 3 : By DFT. Solid State Communications, 2017, 259, 10-15.	1.9	38
13	Ti ₂ VGe Heuslerene: theoretical prediction of a novel 2D material. Journal of Materials Chemistry C, 2019, 7, 13559-13572.	5.5	36
14	Characterization of microroughness parameters in Cu-C nanocomposite prepared by co-deposition of RF-sputtering and RF-PECVD. EPJ Applied Physics, 2013, 64, 11301.	0.7	32
15	Ab initio study of electronic, magnetic, elastic and optical properties of full Heusler Co2MnSb. Indian Journal of Physics, 2016, 90, 909-916.	1.8	31
16	Preparation and magnetoresistance behavior of nickel nanoparticles embedded in hydrogenated carbon film. Journal of Materials Science: Materials in Electronics, 2015, 26, 6814-6818.	2.2	30
17	First-principles study of optical properties of InN nanosheet. International Journal of Modern Physics B, 2016, 30, 1650117.	2.0	29
18	Mechanical stability and thermoelectric properties of the PdZrTiAl quaternary Heusler: A DFT study. Solid State Communications, 2020, 308, 113838.	1.9	29

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19	Microstructure and optical properties of cobalt–carbon nanocomposites prepared by RF-sputtering. Journal of Materials Science: Materials in Electronics, 2015, 26, 5964-5969.	2.2	27
20	The effects of deposition time on surface morphology, structural, electrical and optical properties of sputtered Ag-Cu thin films. European Physical Journal Plus, 2016, 131, 1.	2.6	22
21	Electronic and optical properties of V doped AlN nanosheet: DFT calculations. Chinese Journal of Physics, 2018, 56, 2698-2709.	3.9	22
22	Synthesis of multiwalled carbon nanotubes on Cu-Fe nano-catalyst substrate. Results in Physics, 2017, 7, 3640-3644.	4.1	19
23	Thermodynamic phase diagram and thermoelectric properties of LiMgZ (Z = P, As, Bi): ab initio method study. Philosophical Magazine, 2021, 101, 369-386.	1.6	17
24	The Vanadium Effect on Electronic and Optical Response of MoS2 Graphene-Like: Using DFT. Silicon, 2018, 10, 2855-2863.	3.3	13
25	Elastic and optical properties of zinc-blende CrSb and its effective mass. Rare Metals, 2014, 33, 615-621.	7.1	12
26	Thermal stability of amorphous tungsten/tungsten nitride synthesis using HFCVD as a diffusion barrier for copper. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	11
27	Half-metallic, magneto-optic, and thermoelectric properties of CoRuVZ (Z=Al, Ga). Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 414, 127622.	2.1	11
28	Thermodynamic phase diagram and electronic properties of Co ₂ VAl ã€^001〉 film: A first-principles study. International Journal of Modern Physics B, 2014, 28, 1450145.	2.0	9
29	Introduction of a carbon paste electrode based on nickel carbide for investigation of interaction between warfarin and vitamin K1. Journal of Pharmaceutical and Biomedical Analysis, 2017, 139, 156-164.	2.8	9
30	Electronic, optical, magneto-optical, and thermoelectric properties of the SrS graphene-like under Cr impurity. Chemical Physics, 2021, 551, 111355.	1.9	9
31	DFT study of elastic, half-metallic and optical properties of Co ₂ V(Al, Ge, Ga and Si) compounds. International Journal of Modern Physics B, 2017, 31, 1750109.	2.0	8
32	Half-Metallic, Thermoelectric, Optical, and Thermodynamic Phase Stability of RbBaB(001) Film: A DFT Study. International Journal of Thermophysics, 2019, 40, 1.	2.1	8
33	Thermoelectric and optical properties of the SrS graphene by DFT. Philosophical Magazine, 2020, 100, 3108-3124.	1.6	8
34	Hydrogen effect on <scp>halfâ€metallic</scp> and thermoelectric properties of <scp>CoRhMnSi</scp> [001] film. International Journal of Energy Research, 2021, 45, 13055-13070.	4.5	8
35	GdPtBi Heuslerene: mechanical stability, half-metallic, magneto-optic, and thermoelectric properties by DFT. Philosophical Magazine, 2022, 102, 887-901.	1.6	8
36	The Vanadium effect on the electronic and optical properties of Ti3C2 graphene like: Based DFT. Results in Physics, 2018, 8, 1209-1215.	4.1	7

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37	Influence of deposition time on the optical and morphological properties of silver–copper thin films: experimental and statistical studies. Optical and Quantum Electronics, 2021, 53, 1.	3.3	7
38	Multiscale Surface Microtexture Analysis of CuNPs@a-C:H Thin Films. Industrial & Engineering Chemistry Research, 2020, 59, 22520-22532.	3.7	7
39	Thermodynamic Stability, Half-Metallic and Optical Properties of Sc 2 CoSi [001] Film: a DFT Study. Communications in Theoretical Physics, 2019, 71, 455.	2.5	6
40	Effects of hydrogen and nitrogen impurities on electronic, structural and optical properties of 2D ZnS graphene based. Journal of Materials Science, 2017, 52, 10393-10405.	3.7	5
41	Structural, Electronic and Optical Properties of InAs Phases: By GGA-PBG and GGA-EV Approximations. Journal of Chemical Research, 2017, 41, 172-182.	1.3	4
42	Electronic structure and magnetic properties of the CoFeMnZ (Z=As and Si) Heuslers by XAS, XMCD and MOKE: A DFT study. Materials Today Communications, 2021, 26, 101773.	1.9	4
43	Electronic and optical properties of Fe doped GaN graphene based: Using DFT. Computational Condensed Matter, 2021, 28, e00569.	2.1	4
44	Huge Figure of Merit, Half-Metallic, and Optical Properties in n-Type CoVSb Heuslerene. International Journal of Thermophysics, 2022, 43, 1.	2.1	4
45	<i>Ab initio</i> study of optical and vibrational properties of Ni ₃ C. International Journal of Modern Physics B, 2017, 31, 1750003.	2.0	3
46	Effect of Si and Ge Surface Doping on the Be2C Monolayer: Case Study on Electrical and Optical Properties. Silicon, 2018, 10, 1893-1902.	3.3	3
47	Electronic and optical properties of graphene-like InAs: An ab initio study. European Physical Journal Plus, 2018, 133, 1.	2.6	3
48	Prevailing Cu-C Nanocomposite over Cu NPs for CNTs Growth: A Catalyst Study on Silicon Substrate. Silicon, 2018, 10, 907-912.	3.3	3
49	Thermodynamic phase diagram, magneto-optic and thermoelectric properties of the AlXN (X = Co, Fe) Tj ETQq1	1 0.78431 1.6	4 rgBT /Overl
50	Thermodynamic Phase Diagram, Half-Metallic and Optical Properties of the Zr2TiSi [111] Films Based on DFT. Silicon, 2020, 12, 2165-2178.	3.3	3
51	Optical, half-metallic and thermoelectric properties of the Co2TaAl [001] film. Indian Journal of Physics, 2021, 95, 1709-1721.	1.8	3
52	STUDY OF ELECTRICAL AND OPTICAL PROPERTIES OF Cu -ASSISTED AMORPHOUS CARBON THIN FILMS DEPOSITION BY DC MAGNETRON SPUTTERING. Modern Physics Letters B, 2013, 27, 1350174.	1.9	2
53	Electronic and optical properties of GaN under pressure: DFT calculations. International Journal of Modern Physics B, 2017, 31, 1750261.	2.0	2
54	Vanadium impurity effects on optical properties of Ti3N2 mono-layer: An ab-initio study. Results in Physics, 2018, 9, 270-274.	4.1	2

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55	Thermodynamic stability, half-metallic and optical nature of graphene-like Mn2 ZrZ (Z = Ge, Si): Ab initio study. International Journal of Modern Physics B, 2018, 32, 1850324.	2.0	2
56	Characterization of halide perovskite/titania interfaces as a function of the interlayer composition: A theoretical study. Journal of Physics and Chemistry of Solids, 2020, 138, 109243.	4.0	2
57	Electronic, optical and thermoelectric properties of the WS2–GaN interfaces: a DFT study. International Nano Letters, 2020, 10, 249-261.	5.0	2
58	Optical and electronic properties of zigzag boron nitride nanotube (6,0): DFT study. International Nano Letters, 2020, 10, 293-301.	5.0	2
59	Thermoelectric and half-metallic behavior of the Co2TaAl: a DFT study. International Nano Letters, 2020, 10, 81-88.	5.0	2
60	Investigation of the stability, electronic structure, and magnetic properties of Sc2VZ (ZÂ=ÂGe, Si) Heusler alloys: First-principles calculations. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 267, 115096.	3.5	2
61	The effect of Fe impurity on electronic and optical properties of graphene-like InAs: a DFT-based study. Indian Journal of Physics, 2022, 96, 1705-1714.	1.8	2
62	Mechanical stability, half-metallic, and thermoelectric properties of LuCoTiSi, LuCoTiGe and LuCoTiSn: a DFT study. Indian Journal of Physics, 0, , 1.	1.8	2
63	Mechanical and thermodynamic stabilities, half-metallic and thermoelectric comparison between CoFeMnZ (Z = Śi, Ge) Heuslers by DFT. Applied Physics A: Materials Science and Processing, 2021, 127,	1. ^{2.3}	2
64	The band offset barrier and optical properties calculation of Co2VGa/GaAs(001) interfaces: A DFT study. International Journal of Modern Physics B, 2018, 32, 1750270.	2.0	1
65	Structural, Half-Metallic, Optical, and Thermoelectric Study on the Zr2TiX (X = Al, Ga, Ge, Si) Heuslers: by DFT. Silicon, 2019, 11, 501-511.	3.3	1
66	The Cr impurity effect on the optical properties of the Ti2N graphene-like materials: a DFT study. International Nano Letters, 2019, 9, 289-298.	5.0	1
67	The MN effect on Electronic, optical and thermoelectric properties of Ti2N graphene: by DFT. Chinese Journal of Physics, 2019, 57, 240-249.	3.9	1
68	Vanadium effect on the electronic and thermoelectric properties of ScPtBi compound. International Nano Letters, 2020, 10, 225-234.	5.0	1
69	Thermodynamic, mechanical stabilities and thermoelectric behavior of the XVSi (X = Co, Rh) half-Heuslers. Indian Journal of Physics, 2022, 96, 1045-1057.	1.8	1
70	Interfacial Rashba band splitting in the organohalide lead perovskites: an ab-initio study. Semiconductor Science and Technology, 2021, 36, 075010.	2.0	1
71	Surface micromorphology analysis of Cu/Ni nanocomposite thin films by power spectra density and fractal geometry. Materials Science-Poland, 2020, 38, 328-333.	1.0	1
72	Electronic, optical and thermoelectric properties of MoS ₂ -GaN interface. International Journal of Modern Physics B, 2022, 36, .	2.0	1

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73	Carbon nanotubes growth on sub-surface catalyst layer of Cu–Ni nanoparticles thin film. Protection of Metals and Physical Chemistry of Surfaces, 2016, 52, 1043-1045.	1.1	0
74	Study of Pressure Effects on the Elastic Stability and Optical Treatment of Co2VAl using GGA+U. Silicon, 2017, 9, 431-437.	3.3	0
75	Elastic stability and optical property under pressure of TiN phases: by first principles study. Indian Journal of Physics, 2017, 91, 1319-1330.	1.8	0
76	Electronic and optical properties of AlN under pressure: DFT calculations. International Journal of Modern Physics B, 2017, 31, 1650255.	2.0	0
77	Nickel Nanoparticle Catalyzed Growth of Multiwall CNTs on Copper thin Films Substrate. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 677-681.	1.1	0
78	The band offset, Half-metallic and optical behavior in the CrSb/KCl [0†0†1] interface: By DFT calculation. Chemical Physics Letters, 2019, 714, 53-60.	2.6	0
79	Electronic, optical and thermoelectric properties of BN-Be(8,0) nanotube: DFT study. Solid State Communications, 2022, , 114822.	1.9	0
80	Evaluation of electronic and optical behavior of the interface of Co ₂ FeAl/AlN heusler alloy. Materials Research Express, 2022, 9, 065004.	1.6	0